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Carbonyl gp. contg. cyclic cpds. useful as polymer plasticisers - comprise macrocyclic ketone(s) or lactone(s), alkyl-substd. lactone(s) or cyclic imine(s) N-acylated with long-chain acyl gps.

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Patent Family

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EP 332802	A	19890920	EP 89100439	A	19890111	198938	B
DE 3809236	A	19890928	DE 3809236	A	19880318	198940	
WO 8908681	A	19890921	WO 89DE13	A	19890111	198940	
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PT 89909	A	19891110				198950	
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Cited Patents: DE 2832055; US 2214397; US 3219612; US 3328329

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
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Abstract:

EP 332802 A

(1) Carbonyl gp.-contg. cyclic cpds. of formula (I)-(IV) are useful as plasticisers for polymers. m, n=2-13; (m+n)=10-15; p= 0 or 1; q=0 or 1; x=4-6; k=5-7, R=16-18C alkyl (2) A polymer compsn. (V) is claimed contg. 0.5-30 (pref. 2-10) wt.% of at least one of the plasticisers (I)-(IV).

Pref. (V) contains at least one of the following polymer types: polyamide, EVA copolymer, PUR, epoxy, nitrocellulose, PV-acetal, PVA, PE, polyisobutylene, polyester, poly(meth)acrylate, PC, silicone, poly-alcohol, polycaprolactone, polycaprolactam, cellulose ester, cellulose ether.

ADVANTAGE - Cpds. (I)-(IV) are non-toxic and compatible with many types of plastics. Typical applications are in polymer films for controlled-release dosage forms for drugs, e.g. sublingual, intrauterine, transdermal system, etc.

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